

Mechanized Processing and Value Addition for Fish Products

From Catch to Cuisine: Enhancing Fish Quality and Sustainability

This technology is a fish processing and preservation method involving the use of equipment such as solar tent dryers and smoking kilns. Solar dryers offer a lowcost alternative to refrigeration, and smoking kilns utilize smoke to kill microorganisms while drying the fish.





Technology from

ProPAS

Commodities

Fish

1500 usp

Handheld electric fish scaler

1,000 usp

2,500 USD

2.000 USD

8.7

O IP

Patent granted

Filleting equipment

Equipment for skinning and deboning 10 to 20 fish/minute

A greenhouse-style solar dryer 15 m \times 8 m with capacity of 850 kg fish per

batch

Solution

- · Fish processing and preservation technologies extend the shelf life of highly perishable fish, reducing post-harvest losses.
- These methods improve the palatability, taste, and nutritional value of fish products, enhancing their market acceptance.

8/9; level of use: 7/9

· Solar tent dryers and smoking kilns are costeffective and widely used, eliminating the need for refrigeration during transport and storage.

Sustainable Development Goals









Problem

- Post-Harvest Losses, significant post-harvest losses occur due to bacterial activity and oxidation.
- High ambient temperatures in many regions accelerate the spoilage of fish,

This technology is **TAAT1 validated**

- The availability of mechanized equipment and maintenance might pose challenges, particularly in resource-constrained areas.
- · Traditional smoking kilns may consume significant energy and time.

Categories

Transformation, Practices, Agri-food processing

Tested/adopted in

Adopted Tested Testing ongoing

Key points to design your business plan

This technology benefits manufacturers, resellers, and end-users (farmers) in the fish processing industry.

- Key steps include sourcing raw materials, identifying efficient transportation methods, and exploring suitable storage facilities.
- · Potential customers include wholesale distributors, development projects, and government agencies.
- · Sourcing equipment from countries where technology is available, identifying efficient transportation methods, and exploring suitable storage facilities.
- · Cost structure varies depending on equipment type and size, with initial investment offset by long-term savings in fuel costs.



This technology can be used in the colored agro-ecological zones.



Target groups

Processors

Gender assessment



Climate impact



